

Abstract

Solid drill bit for machine tools

~~The invention relates to a~~ solid drill bit for machine tools. The solid drill bit has a drill bit body (10) and two indexable inserts (20, 22) which are arranged at a radial distance from one another in a respective insert seat (16, 18) of the drill bit body (10) in the region of a chip flute (12, 14) seats. The indexable inserts (20, 22) have an essentially quadratic contour. They ~~project with their~~ Their front-end main cutting edges (30, 34) project axially beyond the drill bit body (10) and radially overlap one another ~~radially in their active region~~. The ~~radially outer indexable insert (22), with its outer insert corner (36) and with its adjoining~~ has an outer insert corner and a secondary cutting edges (38) edge perpendicular to the relevant main cutting edge (34), that projects radially beyond the circumference of the drill bit body. ~~In order to~~ To permit burr-free through-drilling, the ~~front-end main cutting edge (34) of the outer insert (22) is subdivided in its longitudinal extent into a radially inner working section (50) and a rectilinear peeling section (52) adjoining said~~ the working section (50) ~~on the outside and extending up to the outer insert corner. The (36), said sections (50 and 52) enclosing~~ enclose a setting angle of 95° to 120° ~~with one another. In the fitted state, the. The~~ peeling section (52), ~~toward the outer insert corner (36), is accordingly set at a positive setting angle of 72° to 87° relative to the end face of the drill bit body.~~

~~{Fig. 3}~~